

AMENDED CLAIMS

[received by the International Bureau on 24 February 2005 (24.02.2005);
original claims 1 and 7 amended; original claim 14 cancelled;
remaining claims unchanged (2 pages)]

1. A styrenic thermoplastics composition comprising:

100 parts by weight of a resin comprising 10-50 parts by weight of a graft
copolymer comprising rubber-modified styrene and 30-70 parts by weight of a
5 copolymer comprising styrene; and

0.5-20 parts by weight of an acrylic rubber-modified copolymer having a rubber
particle size ranging from 800 to 6,000 Å and comprising 5 - 15 parts by weight of
a seed polymerized from an alkyl acrylate; 45-75 parts by weight of a core
polymerized from an alkyl acrylate; and 10-50 parts by weight of a shell
10 polymerized from an alkyl methacrylate and/or an alkyl acrylate.

2. The styrenic thermoplastics composition of claim 1, wherein the graft copolymer
comprising rubber-modified styrene comprises:

30-65 parts by weight of at least one selected from the group consisting of styrene,
15 α -methylstyrene, *p*-methylstyrene, vinyltoluene and *t*-butylstyrene;

10-30 parts by weight of at least one selected from the group consisting of
acrylonitrile, methacrylonitrile and ethacrylonitrile; and

10 - 60 parts by weight of a rubber.

3. The styrenic thermoplastics composition of claim 2, wherein the rubber is
polybutadiene, styrene-butadiene copolymer, polyisoprene or butadiene-isoprene
20 copolymer having a particle size ranging from 500 to 4,000 Å.

4. The styrenic thermoplastics composition of claim 1, wherein the copolymer
25 comprising styrene comprises:

50-90 parts by weight of at least one selected from the group consisting of styrene,
 α -methylstyrene, *p*-methylstyrene, vinyltoluene and *t*-butylstyrene; and

10-50 parts by weight of at least one selected from the group consisting of
acrylonitrile, methacrylonitrile and ethacrylonitrile.

5. The styrenic thermoplastics composition of claim 1, wherein the copolymer
comprising styrene has a weight-average molecular weight ranging from 50,000 to
200,000.

6. An extrusion sheet manufactured from the styrenic thermoplastics composition
35 of claim 1.

7. An acrylic rubber-modified copolymer having a rubber particle size ranging from 800 to 6,000 Å comprising:

5 - 15 parts by weight of a seed polymerized from an alkyl acrylate;

45-75 parts by weight of a core polymerized from an alkyl acrylate; and

10-50 parts by weight of a shell polymerized from an alkyl methacrylate and/or an alkyl acrylate.

8. The acrylic rubber-modified copolymer of claim 7, wherein the seed comprises 95.0-99.95 wt% of an alkyl acrylate having 2-8 carbon atoms in the alkyl group.

9. The acrylic rubber-modified copolymer of claim 7, wherein the core comprises 95.0-99.95 wt% of an alkyl acrylate having 2-8 carbon atoms in the alkyl group.

10. The acrylic rubber-modified copolymer of claim 7, wherein the shell comprises: 90-100 wt% of an alkyl methacrylate having 1-4 carbon atoms in the alkyl group; and

0 - 10 wt% of an alkyl acrylate having 1-4 carbon atoms in the alkyl group.

11. The acrylic rubber-modified copolymer of claim 8 or claim 9, wherein the alkyl acrylate is at least one selected from the group consisting of methyl acrylate, ethyl acrylate, propyl acrylate, isopropyl acrylate, butyl acrylate, hexyl acrylate, octyl acrylate, 2-ethylhexyl acrylate, homopolymers thereof and copolymers thereof.

12. The acrylic rubber-modified copolymer of claim 10, wherein the alkyl methacrylate having 1-4 carbon atoms in the alkyl group is at least one selected from the group consisting of methyl methacrylate, ethyl methacrylate, propyl methacrylate, isopropyl methacrylate and butyl methacrylate.

13. The acrylic rubber-modified copolymer of claim 10, wherein the alkyl acrylate having 1-4 carbon atoms in the alkyl group is at least one selected from the group consisting of ethyl acrylate, methyl acrylate and butyl acrylate.